

APPARATUS USING A SILICONE ELASTOMER AS A DRUG CARRIER IN A DRUG-ELUTING ENDOCARDIAL LEAD AND METHOD OF MANUFACTURE

Abstract of the Disclosure

10 A drug-eluting endocardial lead and method of manufacture. The
silicone elastomer of the present invention is ideally suited to a
manufacturing environment due to its extended pot life and decreased
curing time. A preferred silicone elastomer is comprised of a multi-part
mixture having at least a base portion and a curing portion. Additionally,
since curing does not begin until the base and curing portions are
15 combined, the mixing can be physically undertaken closer to the location
of the endocardial lead and the curing "clock" does not start until the
mixing occurs and external heat is applied. Since the silicone elastomer
formed by base and curing components have improved the pot life and
curing characteristics, the mixture is suitable for mixing with a steroid and
20 then dispensing into an endocardial lead tip thus eliminating current
design limitations imposed by current art while concomitantly minimizing
manufacturing costs.